

re-run

Serial Number: 10/089,364

CRF Processing Date: 8/6/2002

Edited by: \_\_\_\_\_

Verified by: \_\_\_\_\_ (STIC sta)

☐

Changed a file from non-ASCII to ASCII

**ENTERED**

☐

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐

Edited a format error in the Current Application Data section, specifically:

**ENTERED**

☐

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_.

☐

Added the mandatory heading and subheadings for "Current Application Data".

☐

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☐

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

☐

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☐

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐

Inserted colons after headings/subheadings. Headings edited included:

☐

Deleted extra, invalid, headings used by an applicant, specifically:

☒

Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_.

☐

Inserted mandatory headings, specifically: \_\_\_\_\_

☐

Corrected an obvious error in the response, specifically:

☐

Edited identifiers where upper case is used but lower case is required, or vice versa.

☐

Corrected an error in the Number of Sequences field, specifically:

☐

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐

Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

☐

Other: \_\_\_\_\_

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



## RAW SEQUENCE LISTING

DATE: 10/01/2002

PATENT APPLICATION: US/10/089,364

TIME: 19:11:14

Input Set : N:\AMC\J089364.raw

Output Set: N:\CRF4\10012002\J089364.raw

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1 <110> APPLICANT: Richardson, Alan E.
2   Hayes, Julie E.
3   Simpson, Richard J.
4 <120> TITLE OF INVENTION: Expression of phytase in plants
5   as a method of modifying plant productivity
6 <130> FILE REFERENCE: 37-02
7 <140> CURRENT APPLICATION NUMBER: US/10/089,364
8 <141> CURRENT FILING DATE: 2002-03-25
9 <150> PRIOR APPLICATION NUMBER: PCT/AU00/01183
10 <151> PRIOR FILING DATE: 2000-09-23
11 <150> PRIOR APPLICATION NUMBER: AU PQ3049
12 <151> PRIOR FILING DATE: 1999-09-24
13 <160> NUMBER OF SEQ ID NOS: 18
14 <170> SOFTWARE: PatentIn Ver. 2.0
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 1350
18 <212> TYPE: DNA
19 <213> ORGANISM: Aspergillus niger
20 <220> FEATURE:
21 <221> NAME/KEY: CDS
22 <222> LOCATION: (1)..(1347)
23 <400> SEQUENCE: 1
24   atg ctg gca gtc ccc gcc tcg aga aat caa tcc act tgc gat acg gtc   48
25   Met Leu Ala Val Pro Ala Ser Arg Asn Gln Ser Thr Cys Asp Thr Val
26     1             5             10             15
27   gat cag ggg tat caa tgc ttc tcg gag act tcg cat ctt tgg ggc caa   96
28   Asp Gln Gly Tyr Gln Cys Phe Ser Glu Thr Ser His Leu Trp Gly Gln
29             20             25             30
30   tac gcg ccc ttc ttt tct ctg gca aac aaa tcg gcc atc tcc cct gat   144
31   Tyr Ala Pro Phe Phe Ser Leu Ala Asn Lys Ser Ala Ile Ser Pro Asp
32             35             40             45
33   gtt cct gcc gga tgc cat gtc act ttc gcc cag gtt ctc tcc cgc cat   192
34   Val Pro Ala Gly Cys His Val Thr Phe Ala Gln Val Leu Ser Arg His
35     50             55             60
36   gga gca cgg tat ccg acc gac tcc aag ggc aag aaa tac tcc gct ctc   240
37   Gly Ala Arg Tyr Pro Thr Asp Ser Lys Gly Lys Lys Tyr Ser Ala Leu
38     65             70             75             80
39   atc gag gag atc cag cag aac gcg aca acc ttc gag ggg aaa tat gcc   288
40   Ile Glu Glu Ile Gln Asn Ala Thr Thr Phe Glu Gly Lys Tyr Ala
41             85             90             95
42   ttc ctg aag aca tac aac tac agc ctg ggc gcg gat gat ctg act ccc   336
43   Phe Leu Lys Thr Tyr Asn Tyr Ser Leu Gly Ala Asp Asp Leu Thr Pro
44             100             105             110

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/089,364

DATE: 10/01/2002

TIME: 19:11:14

Input Set : N:\AMC\J089364.raw

Output Set: N:\CRF4\10012002\J089364.raw

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45   ttc gga gag cag gag ctg gtc aac tcc ggc gtc aag ttc tac cag cga   384
46   Phe Gly Glu Gln Glu Leu Val Asn Ser Gly Val Lys Phe Tyr Gln Arg
47           115                               120                               125
48   tac gaa tcg ctc aca aga aac att gtc ccg ttc atc cga tcc tca ggc   432
49   Tyr Glu Ser Leu Thr Arg Asn Ile Val Pro Phe Ile Arg Ser Ser Gly
50           130                               135                               140
51   tcc aac cgc gtg att gcc tct ggc aat aaa ttc atc gag ggc ttc cag   480
52   Ser Asn Arg Val Ile Ala Ser Gly Asn Lys Phe Ile Glu Gly Phe Gln
53   145                               150                               155                               160
54   agc act aag ctg aag gat cct cgt gcc cag ccc ggc caa tcg tcg ccc   528
55   Ser Thr Lys Leu Lys Asp Pro Arg Ala Gln Pro Gly Gln Ser Ser Pro
56           165                               170                               175
57   aag atc gac gtg gtc att tca gag gcc agc aca tcc aac aac act ctc   576
58   Lys Ile Asp Val Val Ile Ser Glu Ala Ser Thr Ser Asn Asn Thr Leu
59           180                               185                               190
60   gat ccg ggc acc tgc acc gtt ttc gaa gat agc gaa ttg gcc gat gac   624
61   Asp Pro Gly Thr Cys Thr Val Phe Glu Asp Ser Glu Leu Ala Asp Asp
62           195                               200                               205
63   atc gaa gcc aat ttc acc gcc acg ttc gtc ccc tcc att cgt caa cgt   672
64   Ile Glu Ala Asn Phe Thr Ala Thr Phe Val Pro Ser Ile Arg Gln Arg
65           210                               215                               220
66   ctg gag aat gac ttg tct ggc gtg tct ctc acg gac aca gaa gtg acc   720
67   Leu Glu Asn Asp Leu Ser Gly Val Ser Leu Thr Asp Thr Glu Val Thr
68   225                               230                               235                               240
69   tac ctc atg gac atg tgc tcc ttc gac acc atc tcc acc agc acc gtc   768
70   Tyr Leu Met Asp Met Cys Ser Phe Asp Thr Ile Ser Thr Ser Thr Val
71           245                               250                               255
72   gac acc aag ctg tcc ccc ttc tgt gac ctg ttc acc cat gaa gaa tgg   816
73   Asp Thr Lys Leu Ser Pro Phe Cys Asp Leu Phe Thr His Glu Glu Trp
74           260                               265                               270
75   atc aac tac gac tac ctc cag tcc ccg aac aaa tac tac ggc cat ggc   864
76   Ile Asn Tyr Asp Tyr Leu Gln Ser Pro Asn Lys Tyr Tyr Gly His Gly
77           275                               280                               285
78   gca ggt aac ccg ctc ggc ccg acc cag ggc gtc ggc tac gct aac gag   912
79   Ala Gly Asn Pro Leu Gly Pro Thr Gln Gly Val Gly Tyr Ala Asn Glu
80           290                               295                               300
81   ctc atc gcc cgt ctc acc cac tcg cct gtc cac gat gac acc agc tcc   960
82   Leu Ile Ala Arg Leu Thr His Ser Pro Val His Asp Asp Thr Ser Ser
83   305                               310                               315                               320
84   aac cac aca ttg gac tcc aac ccg gct act ttc ccg ctc aac tcc act   1008
85   Asn His Thr Leu Asp Ser Asn Pro Ala Thr Phe Pro Leu Asn Ser Thr
86           325                               330                               335
87   ctc tat gcg gac ttt tcg cat gat aac ggc atc atc tct atc ctc ttt   1056
88   Leu Tyr Ala Asp Phe Ser His Asp Asn Gly Ile Ile Ser Ile Leu Phe
89           340                               345                               350
90   gct ttg ggt ctg tac aac ggc acc aag ccg ctg tct tcc acg acc gcg   1104
91   Ala Leu Gly Leu Tyr Asn Gly Thr Lys Pro Leu Ser Ser Thr Thr Ala
92           355                               360                               365
93   gag aat atc acc cag acc gat ggg ttc tca tct gcc tgg acg gtt cct   1152

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## RAW SEQUENCE LISTING

DATE: 10/01/2002

PATENT APPLICATION: US/10/089,364

TIME: 19:11:14

Input Set : N:\AMC\J089364.raw

Output Set: N:\CRF4\10012002\J089364.raw

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94      Glu Asn Ile Thr Gln Thr Asp Gly Phe Ser Ser Ala Trp Thr Val Pro
95          370                      375                      380
96      ttc gcg tcg cgc atg tac gtc gag atg atg caa tgc cag tcc gag cag      1200
97      Phe Ala Ser Arg Met Tyr Val Glu Met Met Gln Cys Gln Ser Glu Gln
98      385                      390                      395                      400
99      gag cct ttg gtc cgt gtc ttg gtt aat gat cgt gtt gtt ccg ctg cat      1248
100     Glu Pro Leu Val Arg Val Leu Val Asn Asp Arg Val Val Pro Leu His
101                      405                      410                      415
102     ggc tgt ccg gtt gat gct ttg gga aga tgt acg cgg gat agc ttc gtg      1296
103     Gly Cys Pro Val Asp Ala Leu Gly Arg Cys Thr Arg Asp Ser Phe Val
104                      420                      425                      430
105     aag ggg ttg agc ttt gcc aga tct ggc ggt gat tgg gcg gag tgt ttt      1344
106     Lys Gly Leu Ser Phe Ala Arg Ser Gly Gly Asp Trp Ala Glu Cys Phe
107                      435                      440                      445
108     gct tag      1350
109     Ala
111 <210> SEQ ID NO: 2
112 <211> LENGTH: 449
113 <212> TYPE: PRT
114 <213> ORGANISM: Aspergillus niger
115 <400> SEQUENCE: 2
116     Met Leu Ala Val Pro Ala Ser Arg Asn Gln Ser Thr Cys Asp Thr Val
117         1             5             10             15
118     Asp Gln Gly Tyr Gln Cys Phe Ser Glu Thr Ser His Leu Trp Gly Gln
119         20             25             30
120     Tyr Ala Pro Phe Phe Ser Leu Ala Asn Lys Ser Ala Ile Ser Pro Asp
121         35             40             45
122     Val Pro Ala Gly Cys His Val Thr Phe Ala Gln Val Leu Ser Arg His
123         50             55             60
124     Gly Ala Arg Tyr Pro Thr Asp Ser Lys Gly Lys Lys Tyr Ser Ala Leu
125         65             70             75             80
126     Ile Glu Glu Ile Gln Gln Asn Ala Thr Thr Phe Glu Gly Lys Tyr Ala
127         85             90             95
128     Phe Leu Lys Thr Tyr Asn Tyr Ser Leu Gly Ala Asp Asp Leu Thr Pro
129         100            105            110
130     Phe Gly Glu Gln Glu Leu Val Asn Ser Gly Val Lys Phe Tyr Gln Arg
131         115            120            125
132     Tyr Glu Ser Leu Thr Arg Asn Ile Val Pro Phe Ile Arg Ser Ser Gly
133         130            135            140
134     Ser Asn Arg Val Ile Ala Ser Gly Asn Lys Phe Ile Glu Gly Phe Gln
135         145            150            155            160
136     Ser Thr Lys Leu Lys Asp Pro Arg Ala Gln Pro Gly Gln Ser Ser Pro
137         165            170            175
138     Lys Ile Asp Val Val Ile Ser Glu Ala Ser Thr Ser Asn Asn Thr Leu
139         180            185            190
140     Asp Pro Gly Thr Cys Thr Val Phe Glu Asp Ser Glu Leu Ala Asp Asp
141         195            200            205
142     Ile Glu Ala Asn Phe Thr Ala Thr Phe Val Pro Ser Ile Arg Gln Arg
143         210            215            220

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/089,364

DATE: 10/01/2002

TIME: 19:11:14

Input Set : N:\AMC\J089364.raw

Output Set: N:\CRF4\10012002\J089364.raw

```

144   Leu Glu Asn Asp Leu Ser Gly Val Ser Leu Thr Asp Thr Glu Val Thr
145   225                               230                               235                               240
146   Tyr Leu Met Asp Met Cys Ser Phe Asp Thr Ile Ser Thr Ser Thr Val
147                               245                               250                               255
148   Asp Thr Lys Leu Ser Pro Phe Cys Asp Leu Phe Thr His Glu Glu Trp
149                               260                               265                               270
150   Ile Asn Tyr Asp Tyr Leu Gln Ser Pro Asn Lys Tyr Tyr Gly His Gly
151                               275                               280                               285
152   Ala Gly Asn Pro Leu Gly Pro Thr Gln Gly Val Gly Tyr Ala Asn Glu
153   290                               295                               300
154   Leu Ile Ala Arg Leu Thr His Ser Pro Val His Asp Asp Thr Ser Ser
155   305                               310                               315                               320
156   Asn His Thr Leu Asp Ser Asn Pro Ala Thr Phe Pro Leu Asn Ser Thr
157                               325                               330                               335
158   Leu Tyr Ala Asp Phe Ser His Asp Asn Gly Ile Ile Ser Ile Leu Phe
159                               340                               345                               350
160   Ala Leu Gly Leu Tyr Asn Gly Thr Lys Pro Leu Ser Ser Thr Thr Ala
161   355                               360                               365
162   Glu Asn Ile Thr Gln Thr Asp Gly Phe Ser Ser Ala Trp Thr Val Pro
163   370                               375                               380
164   Phe Ala Ser Arg Met Tyr Val Glu Met Met Gln Cys Gln Ser Glu Glu
165   385                               390                               395                               400
166   Glu Pro Leu Val Arg Val Leu Val Asn Asp Arg Val Val Pro Leu His
167                               405                               410                               415
168   Gly Cys Pro Val Asp Ala Leu Gly Arg Cys Thr Arg Asp Ser Phe Val
169                               420                               425                               430
170   Lys Gly Leu Ser Phe Ala Arg Ser Gly Gly Asp Trp Ala Glu Cys Phe
171   435                               440                               445
172   Ala
174 <210> SEQ ID NO: 3
175 <211> LENGTH: 1350
176 <212> TYPE: DNA
177 <213> ORGANISM: Aspergillus niger
178 <220> FEATURE:
179 <221> NAME/KEY: CDS
180 <222> LOCATION: (1)..(1347)
181 <400> SEQUENCE: 3
182   atg ctg gca gtc ccc gcc tcg aga aat caa tcc agt tgc gat aag gtc   48
183   Met Leu Ala Val Pro Ala Ser Arg Asn Gln Ser Ser Cys Asp Thr Val
184   1                               5                               10                               15
185   gat cag ggg tat caa tgc ttc tcc gag act tcg cat ctt tgg ggt caa   96
186   Asp Gln Gly Tyr Gln Cys Phe Ser Glu Thr Ser His Leu Trp Gly Gln
187   20                               25                               30
188   tac gca ccg ttc ttc tct ctg gca aac gaa tcg gtc atc tcc cct gag   144
189   Tyr Ala Pro Phe Phe Ser Leu Ala Asn Glu Ser Val Ile Ser Pro Glu
190   35                               40                               45
191   gtg ccc gcc gga tgc aga gtc act ttc gct cag gtc ctc tcc cgt cat   192
192   Val Pro Ala Gly Cys Arg Val Thr Phe Ala Gln Val Leu Ser Arg His
193   50                               55                               60

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## RAW SEQUENCE LISTING

DATE: 10/01/2002

PATENT APPLICATION: US/10/089,364

TIME: 19:11:14

Input Set : N:\AMC\J089364.raw

Output Set: N:\CRF4\10012002\J089364.raw

194	gga gcg cgg tat ccg acc gac tcc aag ggc aag aaa tac tcc gct ctc	240
195	Gly Ala Arg Tyr Pro Thr Asp Ser Lys Gly Lys Lys Tyr Ser Ala Leu	
196	65 70 75 80	
197	att gag gag atc cag cag aac gcg acc acc ttt gac gga aaa tat gcc	288
198	Ile Glu Glu Ile Gln Gln Asn Ala Thr Thr Phe Asp Gly Lys Tyr Ala	
199	85 90 95	
200	ttc ctg aag aca tac aac tac agc ttg ggt gca gat gac ctg act ccc	336
201	Phe Leu Lys Thr Tyr Asn Tyr Ser Leu Gly Ala Asp Asp Leu Thr Pro	
202	100 105 110	
203	ttc gga gaa cag gag cta gtc aac tcc ggc atc aag ttc tac cag cgg	384
204	Phe Gly Glu Gln Glu Leu Val Asn Ser Gly Ile Lys Phe Tyr Gln Arg	
205	115 120 125	
206	tac gaa tcg ctc aca agg aac atc gtt cca ttc atc cga tcc tct ggc	432
207	Tyr Glu Ser Leu Thr Arg Asn Ile Val Pro Phe Ile Arg Ser Ser Gly	
208	130 135 140	
209	tcc agc cgc gtg atc gcc tcc ggc aag aaa ttc atc gag ggc ttc cag	480
210	Ser Ser Arg Val Ile Ala Ser Gly Lys Lys Phe Ile Glu Gly Phe Gln	
211	145 150 155 160	
212	agc acc aag ctg aag gat cct cgt gcc cag ccc ggc caa tcg tcg ccc	528
213	Ser Thr Lys Leu Lys Asp Pro Arg Ala Gln Pro Gly Gln Ser Ser Pro	
214	165 170 175	
215	aag atc gac gtg gtc att tcc gag gcc agc tca tcc aac aac act ctc	576
216	Lys Ile Asp Val Val Ile Ser Glu Ala Ser Ser Ser Asn Asn Thr Leu	
217	180 185 190	
218	gac cca ggc acc tgc act gtc ttc gaa gac agc gaa ttg gcc gat acc	624
219	Asp Pro Gly Thr Cys Thr Val Phe Glu Asp Ser Glu Leu Ala Asp Thr	
220	195 200 205	
221	gtc gaa gcc aat ttc acc gcc acg ttc gtc ccc tcc att cgt caa cgt	672
222	Val Glu Ala Asn Phe Thr Ala Thr Phe Val Pro Ser Ile Arg Gln Arg	
223	210 215 220	
224	ctg gag aac gac ctg tcc ggt gtg act ctc aca gac aca gaa gtg acc	720
225	Leu Glu Asn Asp Leu Ser Gly Val Thr Leu Thr Asp Thr Glu Val Thr	
226	225 230 235 240	
227	tac ctc atg gac atg tgc tcc ttc gac acc atc tcc acc agc acc gtc	768
228	Tyr Leu Met Asp Met Cys Ser Phe Asp Thr Ile Ser Thr Ser Thr Val	
229	245 250 255	
230	gac acc aag ctg tcc ccc ttc tgt gac ctg ttc acc cat gac gaa tgg	816
231	Asp Thr Lys Leu Ser Pro Phe Cys Asp Leu Phe Thr His Asp Glu Trp	
232	260 265 270	
233	atc aac tac gac tac ctc cag tcc ttg aaa aag tat tac ggc cat ggt	864
234	Ile Asn Tyr Asp Tyr Leu Gln Ser Leu Lys Lys Tyr Tyr Gly His Gly	
235	275 280 285	
236	gca ggt aac ccg ctc ggc ccg acc cag ggc gtc ggc tac gct aac gag	912
237	Ala Gly Asn Pro Leu Gly Pro Thr Gln Gly Val Gly Tyr Ala Asn Glu	
238	290 295 300	
239	ctc atc gcc cgt ctg acc cac tcg cct gtc cac gat gac acc agt tcc	960
240	Leu Ile Ala Arg Leu Thr His Ser Pro Val His Asp Asp Thr Ser Ser	
241	305 310 315 320	
242	aac cac act ttg gac tcg agc ccg gct acc ttt ccg ctc aac tct act	1008

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/089,364

DATE: 10/01/2002  
TIME: 19:11:15

Input Set : N:\AMC\J089364.raw  
Output Set: N:\CRF4\10012002\J089364.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:10; Line(s) 491

Seq#:12; Line(s) 665

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/089,364

DATE: 10/01/2002

TIME: 19:11:15

Input Set : N:\AMC\J089364.raw

Output Set: N:\CRF4\10012002\J089364.raw





## RAW SEQUENCE LISTING

DATE: 10/01/2002

PATENT APPLICATION: US/10/089,364

TIME: 19:01:22

Input Set : A:\37-02 - PCT-AU00-01183 sequence.txt

Output Set: N:\CRF4\10012002\J089364.raw

3 <110> APPLICANT: Richardson, Alan E.  
 4       Hayes, Julie E.  
 5       Simpson, Richard J.  
 9 <120> TITLE OF INVENTION: Expression of phytase in plants  
 10       as a method of modifying plant productivity  
 12 <130> FILE REFERENCE: 37-02  
 14 <140> CURRENT APPLICATION NUMBER: US 10/089,364  
 15 <141> CURRENT FILING DATE: 2002-03-25  
 17 <150> PRIOR APPLICATION NUMBER: PCT/AU00/01183  
 18 <151> PRIOR FILING DATE: 2000-09-23  
 20 <150> PRIOR APPLICATION NUMBER: AU PQ3049  
 21 <151> PRIOR FILING DATE: 1999-09-24  
 23 <160> NUMBER OF SEQ ID NOS: 18  
 25 <170> SOFTWARE: PatentIn Ver. 2.0

Does Not Comply  
Corrected Diskette Needed

## ERRORED SEQUENCES

1077 <210> SEQ ID NO: 18  
 1078 <211> LENGTH: 6  
 1079 <212> TYPE: PRT  
 1080 <213> ORGANISM: Artificial Sequence  
 1082 <220> FEATURE:  
 1083 <223> OTHER INFORMATION: Description of Artificial Sequence:ext::phytase  
 1084       junction  
 1086 <400> SEQUENCE: 18  
 1087 Thr Ala Ala Met Leu Ala  
 1088       1                   5

E--&gt; 1089

18 delete

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/089,364DATE: 10/01/2002  
TIME: 19:01:24Input Set : A:\37-02 - PCT-AU00-01183 sequence.txt  
Output Set: N:\CRF4\10012002\J089364.rawInvalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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Seq#:7; Line(s) 515,516,517,518  
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Seq#:9; Line(s) 532,533,534,535,536,537,538,539,540,541,542,543,544,545,546  
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Seq#:9; Line(s) 607,608,609,610,611,612,613,614,615,616,617,618,619,620,621

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 10/01/2002  
PATENT APPLICATION: US/10/089,364      TIME: 19:01:24

Input Set : A:\37-02 - PCT-AU00-01183 sequence.txt  
Output Set: N:\CRF4\10012002\J089364.raw

Seq#:9; Line(s) 622,623,624,625,626,627,628,629,630,631,632,633,634,635,636  
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Seq#:9; Line(s) 667,668  
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Seq#:10; Line(s) 731,732,733,734,735,736,737,738,739,740,741,742,743,744  
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Seq#:10; Line(s) 773  
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Seq#:11; Line(s) 802,803,804,805,806,807,808,809,810,811,812,813,814,815  
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Seq#:11; Line(s) 830,831,832,833,834,835,836,837,838,839,840,841,842,843  
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Seq#:11; Line(s) 900,901,902,903,904,905,906,907,908,909,910,911  
Seq#:12; Line(s) 912,913,920,921,922,923,924,925,926,927,928,929,930,931  
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Seq#:12; Line(s) 974,975,976,977,978,979,980,981,982,983,984,985,986,987  
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Seq#:12; Line(s) 1013,1014,1015,1016  
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Seq#:13; Line(s) 1028  
Seq#:14; Line(s) 1029,1030,1031,1032,1033,1034,1035,1036,1037,1038,1039  
Seq#:14; Line(s) 1040  
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Seq#:16; Line(s) 1053,1054,1055,1056,1057,1058,1059,1060,1061,1062,1063  
Seq#:16; Line(s) 1064  
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Seq#:17; Line(s) 1076,1077  
Seq#:18; Line(s) 1078,1079,1080,1081,1082,1083,1084,1085,1086,1087,1088

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/089,364

DATE: 10/01/2002

TIME: 19:01:24

Input Set : A:\37-02 - PCT-AU00-01183 sequence.txt  
Output Set: N:\CRF4\10012002\J089364.raw

L:1089 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:18